

State of California
Department of Food and Agriculture
Division of Measurement Standards

Certificate Number: 5034-00
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California Type Evaluation Program
Certificate of Approval
for Weighing Devices

For:

Indicating Element
Digital Electronic
Model: TR2000
n_{max}: 5000

Accuracy Class: III/III L

Submitted by:

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Standard Features and Options

Automatic zero setting mechanism (AZSM)
Semi-automatic zero setting mechanism
Low battery indicator
Record annunciator
lb/kg unit of measure (selected internally)

Initial zero setting mechanism (IZSM)
Liquid crystal display
Bidirectional RS-232 serial port
RS-232 (printer or computer interfacing)
Category 1 audit trail event counters

Statistics Recording Features:

Average	Record
Count	Total
Min	Max
Clear stats	Undo record

Temperature Range: -10 EC to 40 EC (14 EF to 104 EF)

This device was evaluated under the California Type Evaluation Program (CTEP) and was found to comply with the applicable technical requirements of California Code of Regulations for "Weighing and Measuring Devices." Evaluation results and device characteristics necessary for inspection and use in commerce are on the following pages.

Effective Date: June 21, 2000

Mike Cleary, Director

Tru-Test Limited
Indicating Element
Model: TR2000

Application: General purpose indicating element to be interfaced with an approved and compatible weighing element.

Identification: The required information is on a self-destructive aluminum foil label affixed to the face of the indicator.

Sealing: The scale uses a Category 1 audit trail with two event counters (calibration and configuration). To access the event counters, depress the “LIVE” and “AUTO ZERO” buttons simultaneously. The display will indicate “CAL.E” alternately with the calibration counter value. Depress the “ZERO” button and the display will indicate “CnF.E” alternately with the configuration counter value. To exit the event counter mode depress the “LIVE” button.

Operation: Pressing the “RECORD” button adds the displayed weight to the statistics information and prints the recorded weight (if a printer is connected). Pressing a statistics button displays the statistical information. This information is also printed.

Test conditions: The emphasis of this evaluation was on device design, operation, and compliance with influence factors. The Model TR2000 was interfaced with a load cell simulator and tested for accuracy over a temperature range of -10 °C to 40 °C (14 °F to 104 °F). The device was tested over a voltage range of 5.2 VDC to 13.2 VDC. Additionally, the indicator was connected to a printer and a load cell to verify compliance with zero, zone of uncertainty, motion detection requirements, and printing format.

The results of this evaluation indicate the device complies with applicable requirements.

Type Evaluation Criteria Used: Title 4, California Code of Regulations, 2000 Edition

Tested By: Dan Parks (CA), Gary Castro (CA)